

Cancel claims 1-11 without prejudice.

1 12. (Unchanged) A heat removal system in a portable computer for removing
2 heat from a heat generating device, said heat removal system comprising:
3 a keyboard having a thermally conductive support plate, said support plate having a
4 substantially planar bottom surface;
5 a flat heat pipe attached to said bottom surface of said keyboard support plate, said
6 heat generating device thermally coupled to said flat heat pipe; and
7 air moving means for producing an airflow through a housing, at least a portion of
8 said housing being thermally coupled to said flat heat pipe.

1 13. (Unchanged) The heat removal system of claim 12, wherein said flat heat
2 pipe comprises a plurality of micro-channels that are arranged parallel to one another.

1 14. (Unchanged) The heat removal system of claim 12, wherein said air
2 moving means comprises a fan.

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1 15. (Unchanged) The heat removal system of claim 12, wherein said air
2 moving means housing includes at least one fin disposed in the path of said air flow, said
3 heat pipe thermally coupled to said fin.

1 16. (Amended) The heat removal system of claim [12] 14 further comprising
2 a control circuit for switching said fan on or off in response to a temperature measurement
3 on said keyboard.

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1 17. (Amended) The heat removal system of claim [12] 14 further comprising
2 a control circuit for switching said fan on or off in response to a temperature measurement
3 of said heat generating device.

1 18. (Amended) The heat removal system of claim 14 [12] further
2 comprising:

3 a temperature sensing device attached to said keyboard; and

4 a controller for receiving a signal from said temperature sensing device, said
5 controller switching said fan on or off in response to said signal.

1 19. (Amended) The heat removal system of claim 14 [12] further comprising:

2 a temperature sensing device attached to said heat generating device; and

3 a controller for receiving a signal from said temperature sensing device, said
4 controller switching said fan on or off in response to said signal.

1 20. (Amended) A [cooling] heat removal system in a portable computer for
2 removing heat from a heat generating device, said heat removal system comprising:

3 a keyboard having a thermally conductive support plate, said support plate having a
4 substantially planar bottom surface;

5 a flat heat pipe attached to said bottom surface of said keyboard support plate, said
6 heat generating device thermally coupled to said flat heat pipe;

7 a fan for producing air flow through a fan housing; and

8 a thermally conductive fin located within said air flow, said heat pipe thermally
9 coupled to said fin.

1 21. (Unchanged) The heat removal system of claim 20 further comprising:

2 a temperature sensing device attached to said keyboard; and

3 a controller for receiving a signal from said temperature sensing device, said
4 controller switching said fan on or off in response to said signal.

1 ~~22.~~ (Unchanged) The heat removal system of claim 20 further comprising:

2 a temperature sensing device attached to said heat generating device; and
 3 a controller for receiving a signal from said temperature sensing device, said
 4 controller switching said fan on or off in response to said signal.

1 23. (Amended) A [cooling] heat removal system in a portable computer for
 2 removing heat from a heat generating device, said heat removal system comprising:
 3 a keyboard having a thermally conductive support plate, said support plate having a
 4 substantially planar bottom surface;
 5 a flat heat pipe attached to said bottom surface of said keyboard support plate, said
 6 heat generating device thermally coupled to said flat heat pipe;
 7 a fan for producing air flow through a fan housing;
 8 a thermally conductive fin located within said air flow, said heat pipe thermally
 9 coupled to said fin;
 10 a temperature sensing device attached to said keyboard; and
 11 a controller for receiving a signal from said temperature sensing device, said
 12 controller switching said fan on or off in response to said signal.

1 24. (Amended) A [cooling] heat removal system in a portable computer for
 2 removing heat from a heat generating device, said heat removal system comprising:
 3 a keyboard having a thermally conductive support plate, said support plate having a
 4 substantially planar bottom surface;
 5 a flat heat pipe attached to said bottom surface of said keyboard support plate, said
 6 heat generating device thermally coupled to said flat heat pipe;
 7 a fan for producing air flow through a fan housing;
 8 a thermally conductive fin located within said air flow, said heat pipe thermally
 9 coupled to said fin;
 10 a temperature sensing device attached to said heat generating device; and